Ravikumar Dasoju

**GIS Sr.Developer**

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**PROFESSIONAL SUMMARY:**

**GIS Sr Developer** with **12+ years of IT experience,** excellent knowledge in **Configuration Management**, **Design**, **Development**, **Analysis** & **Administration** with **Continuous Integration** and **Continuous Delivery (CI/CD)**, **Build** and **Release** with my major focus on Cloud Platforms **Azure**, **Amazon Web services** (**AWS**) and Complete end to end implementation of **Desktop**, **Web** & **Mobile** based **GIS projects** with both **ESRI** & **Open source** technologies and great knowledge on the principles and best practices of software configuration Management (**SCM**) in **agile**, **scrum** and **waterfall** methodologies.

* Proficient experience on **ArcGIS Pro** Desktop handling with different data sets.
* experienced in developing web applications with **ReactJs**
* Worked on **DevOps pipeline Azure** with **Bit-Bucket**, **GIT**.
* **ArcGIS Portal** migration using **Python API** in cloud environment.
* **Automating** the **GIS Data processing** and Managing the Environment with **Python Scripts**.
* **ArcGIS Pro** Desktop customized tools development on **GIS Utility Network** data.
* Experience in Creating **Geo-processing tools** using **ArcPy**
* Data creation and date update using various A**rcpy** scripts to handle daily routines.
* Worked on Batch processing scripts with **ArcPy** for **Automation process** of **GIS Data** from survey teams.
* Working experience on **ArcGIS Pro SDK** .**Net** Desktop tools development for electrical data.
* Created **CI/CD** pipelines using **Jenkins** to deploy containerized applications using **Docker** in the **AWS cloud**.
* Experience integrating with **JSON**/**Restful APIs** and back-end services and experience in **jQuery** and **JavaScript**, **ReactJs**.
* Web Application development using **ESRI JavaScript API 4.X** for with **ReactJs** platform.
* Experienced in **FME Scripts** development using **FME** Software’s like – **FME Desktop** and Knowledge on **FME transformers**
* Experience on **VB.Net**, **C#**, **ASP.net**, **.Net** and knowledge on **Angular JS** Development.
* Worked on **Agile** Development Methodology **Scrum** and **Test-Driven** Development
* Creating **Docker containers** and **Docker consoles** for managing the application life cycle. Responsible for Build

and Install Schedules using **Unix.**

* Configured applications that run **multi-container Docker** applications by utilizing the **Docker-Compose** tool which uses a file configured in **YAML** format.
* Experience in Configuration management tool such as **Ansible.**
* Extensive hands-on experience with **Ansible** and **Ansible Tower** as **Configuration management tool**, to **automate repetitive tasks**, quick deploys of critical applications, and proactive management of changes.
* Manage and maintain source code management with **GIT** including **writing hooks**, resolving issues with

repositories, ensuring accessibility of environment.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Cloud Platforms** | Microsoft Azure, Amazon Web Services, GCP |
| **Infrastructure Provisioning**  **Tools** | Terraform, Cloud Formation |
| **Configuration Management**  **Tools** | Ansible |
| **CI /CD Tools** | Jenkins, Azure Pipelines |
| **Build Tools** | Maven, Gradle |
| **Containerization Tools** | Docker, Kubernetes |
| **Source Code Management** | GIT, Gitlab, Bitbucket, Azure Repos. |
| **GIS Software’s** | ESRI Enterprise, ArcGIS Pro SDK, , ArcGIS Pro, ArcGIS Server 10.1/10.2/10.6, ArcGIS (9.3,10.2,10.4), ArcObjects, OpenLayers2,3,4, & Leaflet.  GeoServer-2.12.1, MapServer, QGIS, Geocortex Essential, Geocortex  Workflow Designer, FME Desktop, FME Server |
| **GIS SDK’s** | ArcGIS Maps SDK for JavaScript, ArcGIS Pro SDK for .Net, ArcGIS API for  Python, ArcGIS Rest API. ESRI Leaflet. |
| **Scripting & Programming**  **Languages** | ReactJS, Python, Power-Shell, Bash/Shell, JavaScript, Leaflet, Openlayers,  Angular, Node. |
| **Web Technologies** | C#.Net, ASP.Net, HTML5, CSS3 |
| **Databases** | Oracle 11g/12c,, MySQL, MongoDB. |
| **Application/Web Servers** | Apache Tomcat, IIS. |
| **Operating Systems** | Linux, Windows |
| **Agile Approach** | JIRA Tools, Scrum methods |
| **Bug Tracking Tools** | Bugzilla, HP Quality Center and JIRA. |

**PROFESSIONAL EXPERIENCE:**

# Sr GIS Developer

**EV-Go || General Motors ||Aug 2023 to Present**

**Description:** GM is a Access Management Project, this project completely developed for EV charging stations and EV showrooms, EV spares and parts location details using the Web application and Mobile app for the prime vendors, customers to access the all the various features, Charging availability and waiting time and number of charging points at the spot and many more details. And all the details are mapped in the application with complete details for the Business increase and access the routes to decrease the efforts for the customers to reach their near by destinations. This project

# Responsibilities:

* Involved in the **user requirements** gathering and identifying the sources and creating the documentation.
* Developed the **UI Design** using **HTML5**, **Bootstrap.**
* Worked on Front-End Development with **JavaScript, ES6, React, Redux, Restful services, HTML5/CSS3/SASS/Bootstrap**
* Complete handling **ArcGIS Serve**r for all development scenarios.
* Web Application development using **ArcGIS Maps SDk** for **JavaScript**.
* Developed the **Spatial Analysis**, Linear referencing and Shortest path and various other modules.
* Creating web methods to get the data from the database and populating on the **map** as layers
* Working with Different road layers
* Worked on **Redux**-**thunk** with actions and reducers to implement a sync API call.
* Developed the complete **GIS application** with **ArcGIS JavaScript API** and consumed **ArcGIS Server** services.
* Implemented various modules like **Spatial Analysis**, **Buffer Management**, **Network Analysis** and more.
* Creating web methods to get the data from the database and populating on the map as layers
* Working with **Different road layers**
* Displaying road properties on grid click and Map click fetching the data from the **Database**
* Tile cache creating based on the updated data to **display** immediately.
* Experience in building web applications using **ESRI ArcGIS JavaScript API 3.16/3.18/3.23/4+** versions.
* Developed **FME Scripts** for various data transformations using **FME Desktop**
* Getting the data from the **SQL developer** and using those queries inside of the **FME Scripts** for data enhancements
* Responsible for the **analysis, coding & testing** of the objects before delivery to client

**Environment:** ArcGIS Pro, React, Redux**,** ArcGIS Portal, ArcGIS Server, ArcGIS Maps API, FME, C#, Python, Oracle,

# Sr GIS Developer

**SCHEMA|| Singapore Power || Nov 2021 - Aug 2023**

**Description:** SCHEMA is the Web Application of Singapore Power which provides various modules and Business processing functionalities to work with Electrical data, this project is upgradation of ArcGIS layers to ArcGIS Pro utility network published layers consuming into the Web application and Multiple Tracing functionalities like HT Trace, LT Trace and Substation to Substation Trace. Also the project is associated with different data sets like GAS, Landbase feature classes associated with Electrical datasets like Transmission and Distribution layers. And the application has specialized functionality like SLD, Single Line Diagram generation, Editing and SLD Tracing in the Web interface.

# Responsibilities:

* As a Technical Manager I was responsible for the following
* Closer association with client team and **Business** developers tow find their business requirements.
* Understanding user **business expectations** and providing right solutions to their **business** growth.
* Developed the **UI Design** using **HTML5**, **Bootstrap**.
* Worked on Front-End Development with **JavaScript**, **ES6**, **React**, **Redux**, **Restful services**, **HTML5**/**CSS3**/**SASS**/**Bootstrap**
* Analyzing client data and initiating Mock-up screens for the functionalities and arranging Demo to the clients.Feasibility study of the modules and developing solutions with the latest technologies applying to the project.
* ESRI Enterprise automation script & deployment in Cloud Environment using Azure CICD pipeline.
* Developed the Tracing, Search and editing functionalities for different business needs.
* Responsible for the analysis, coding & testing of the objects before delivery to client.

**Environment:** .Net, ArcGIS Pro 3X, ArcGIS Pro SDK for .Net, SQL Server, C#, WPF & MVVM, ArcGIS portal, ArcGIS Server, AWS, Workflow Manager, Arcpy, ArcGIS API for Python, FME.

# Sr GIS Developer

**INM - Final Phases||Network Rail UK || May 2018 to Nov 2021**

**Description:** INM is an Rail network project, its kind of asset management application, which provides different kinds of data and spatial objects display like Tacks, Nodes, TrackLinks and Waymarks, by using this four spatial features networks data formed and using this application we can manage and identity the faults where network disturbed as well as network tracks and can build future networks which are not available for particular areas and this a liner referencing concept implemented system in this application showing an imaginary lines which are not developed till in the track data.

# Responsibilities:

* Involved in the analysis of the **user requirements** and identifying the sources.
* Developed the workflows using Gecocortex workflow and configured the workflows with the site.
* Created different layers as per the specification and published those layers module wise and consumed into the application using Geocortex configuration.
* Developed FME Scripts for various data transformations using FME Desktop
* Getting the data from the SQL developer and using those queries inside of the FME Scripts for data enhancements
* Automated the scripts using FME Server and used the services in to Geocortex application
* Responsible for the analysis, coding & testing of the objects before delivery to client
* **Track Metrics**. Experience in **Azure AD Domain Service**, **SSO** and Security.

**Environment:** Azure, Geocortex, FME, ArcGIS Desktop, ArcGIS Server, C#, Python, GIT, oracle.

# GIS Developer

**HIMS 7.5 || NHAI || Jun 2016 to Sep 2018**

**Description**: HIMS-7.5 is an advanced version of HIMS 7.0 for Road Access Management System, the product is itself has the different features for all the road related information along with web Application and GIS enabled application it describes the total road details like Road condition, bridges, culverts and the application contains the different modules like Data Layers LRMS (Linear Reference Management System), AIS (Accident Information System), EIS (Environment Information System), and RIS (Road Information System). Along with the details, images total information about the roads and road side features, the same product has been designed with this application can use the GIS functionality based on the client interest.

# Responsibilities:

* Developed the UI Design using HTML5, Bootstrap, ArcGIS Server and ArcGIS JavaScript API.
* Developed the Spatial Analysis, Buffer Management, Modules Details,
* Creating web methods to get the data from the database and populating on the map as layers
* Working with Different road layers
* Displaying road properties on grid click and Map click fetching the data from the Database
* Tile cache creating based on the updated data to display immediately.
* Responsible for the analysis, coding & testing of the objects before delivery to client.

**Environment:** GeoServer-2.12.1, OepnLayers-4, QGIS-2.14, Java Script, JQuery, C#, ASP.Net, PostgreSQL, MVC, Tortoise HG.

# GIS Developer

**RAPDRP|| NSGI || Jul 2012 - May 2016**

**Description:** RAPDRP- (Restructured Accelerated Power Development Reforms Programme), The GIS software solution is designed and developed to enable graphical representation of the R-APDRP data over web and to provide user the flexibility of viewing, editing, updating, searching and tracing the data from anywhere through internet or intranet. This complete solution is devised using ArcGIS Server, ArcFM Server and GeoCortex Technologies. And developing the Customized tools as per the Requirement for QA/QC Checking, Network Analysis checking, Domain Attribute Checking tools, for easy to work with Data. C#.Net with ArcGIS 10.1. Software’s are used to develop these tools and Converting Data from one format to other like Excel to PGDB, PGDB to GDB

# Responsibilities:

* Played the role as Arc Objects, .Net Developer
* Developed the UI.
* Updated Meter Serial Number Tool, Attribute Checking Tools,
* Data Migration Tool from PGDB to ArcSDE.
* Also responsible for analysis, coding & testing of the objects before delivery to the client.

**Environment:** ArcGIS Desktop, Java Script, Arc Objects, LPS, Micro Station V8.

# Analyst & Application Developer

**NIC-Kolkata || NIC || Aug 2011 to Jul 2012**

**Description:**The project involves only the stereo compilation works that enabled the client for DTM works. Different layers as per the specifications like roads, road earth, railways, streams, and wall captured using Datum International software. And spot height is taken for the identification of distinguishable ground features such as cliff, mountain top etc. Photo Scale: 1:15000.

# Responsibilities:

* Preparation on technical document based on requirement.
* Developed the customized web tools to work with GIS Data
* Development of all core modules of application and regular updates to client for reviews

**Environment:** ArcGIS Desktop, Arc Objects, LPS, CAD, Micro Station V8, Terra scan.

**EDUCATION**

* + Masters in Geo-informatics, **Annamalai University - 2011, India.**
    - Bachelor in ,Computer science**, Osmania University - 2005, India.**